BIO[...] LOGY
SYSTEMS
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RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: **09/686,234**

Source: **1638**

Date Processed by STIC: **5/16/02**

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: **patin21help@uspto.gov** or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: **patin3help@uspto.gov** or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , EFS Submission User Manual - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
            Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 01/29/2002

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MAY 3 1

TECH CENTER 1600/2900
Does Not Comply
Corrected Diskette Needed

1638

RAW SEQUENCE LISTING   DATE: 05/16/2002
PATENT APPLICATION: US/09/686,234   TIME: 10:52:27

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05162002\I686234.raw

SEQUENCE LISTING
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 2 (1) GENERAL INFORMATION:
 4     (i) APPLICANT: SOMMERVILLE, CHRIS
 5                   SCHIEBLE, WOLF
 6    (ii) TITLE OF INVENTION: MODIFIED CELLULOSE SYNTHASE GENE
 7                             FROM ARABIDOPSIS THALIANA CONFERS HERBICIDE RESISTANCE
 8                             TO PLANTS
10   (iii) NUMBER OF SEQUENCES: 2
12    (iv) CORRESPONDENCE ADDRESS:
13          (A) ADDRESSEE: PAUL A. GOTTLIEB, AGCTT
14                         DEPARTMENT OF ENERGY
15                         GC-62 (FORSTL) MS-6F-067
16          (B) STREET: 1000 INDEPENDENCE AVE. S.W.
17          (C) CITY: WASHINGTON, D.C.
18          (F) ZIP: 20585
20     (v) COMPUTER READABLE FORM:
21          (A) MEDIUM TYPE: FLOPPY DISK
22          (B) COMPUTER: IBM PC COMPATIBLE
23          (C) OPERATING SYSTEM: MS-DOS
24          (D) SOFTWARE: WORDPERFECT 8
26    (vi) CURRENT APPLICATION DATA:
27          (A) APPLICATION NUMBER: US/09/686,234
28          (B) FILING DATE: 11-Oct-2000
31  (viii) ATTORNEY/AGENT INFORMATION:
32          (A) NAME: SMITH, BRADLEY
33          (B) REGISTRATION NUMBER: 334436
34          (C) REFERENCE/DOCKET NUMBER: S-93994
36    (ix) TELECOMMUNICATION INFORMATION:
37          (A) TELEPHONE: 630-252-2160
38          (B) TELEFAX: 630-252-2779
```

C--> 18
C--> 27
C--> 28
C--> 36

ERRORED SEQUENCES

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43 (2) INFORMATION FOR SEQ ID NO: 1:
45     (i) SEQUENCE CHARACTERISTICS:
46          (A) LENGTH: 3563 NUCLEOTIDES
47          (B) TYPE: cDNA
48          (C) STRANDEDNESS: DOUBLE STRANDED
49          (D) TOPOLOGY: LINEAR
52    (ii) MOLECULE TYPE:
57    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
59        1 atcccaagat tctcctcttc gtcttcctta taaactatct ctctgtagag aagaaagctt
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E--> 47
W--> 52

must specify sequence type, i.e., nucleic acid or amino acid - Per Sect. 1.823 (b)(2)(1)(B) of the Old Rules.

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 60       61 ggatccagat tgagagagat tcagagagcc acatcaccac actccatctt cagatctcat
 61      121 gatttgaact attccgacgt ttcggtgttg gaagcaacta agtgacaaat ggaatccgaa
 62      181 ggggaaaccg cgggaaagcc gatgaagaac attgttccgc agacttgcca gatctgtagt
 63      241 gacaatgttg gcaagactgt tgatggagat cgttttgtgg cttgtgatat ttgttcattc
 64      301 ccagtttgtc ggccttgcta cgagtatgag aggaaagatg ggaatcaatc ttgtcctcag
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 66      421 gatggcttag ctgatgaagg tactgttgag ttcaactacc ctcagaagga gaaaatttca
 67      481 gagcggatgc ttggttggca tcttactcgt gggaagggag aggaaatggg ggaaccccag
 68      541 tatgataaag aggtctctca caatcatctt cctcgtctca cgagcagaca agatacttca
 69      601 ggagagtttt ctgctgcctc acctgaacgc ctctctgtat cttctactat cgctggggga
 70      661 aagcgccttc cctattcatc agatgtcaat caatcaccaa atagaaggat tgtggatcct
 71      721 gttggactcg ggaatgtagc ttggaaggag agagttgatg gctggaaaat gaagcaagag
 72      781 aagaatactg gtcctgtcag cacgcaggct gcttctgaaa gaggtggagt agatattgat
 73      841 gccagcacag atatcctagc agatgaggct ctgctgaatg acgaagcgag gcagcctctg
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 75      961 cggcttgtta tcctttgtct cttcttgcat taccgtataa caaacccagt gccaaatgcc
 76     1021 tttgctctat ggctggtctc tgtgatatgt gagatctggt ttgccttatc ctggattttg
 77     1081 gatcagtttc ccaagtggtt tcctgtgaac cgtgaaacct acctcgacag gcttgcttta
 78     1141 agatatgatc gtgaaggtga gccatcacag ttagctgctg ttgacatttt cgtgagtact
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 80     1261 gttgactacc cagttgacaa ggtgtcctgt tatgtttttg atgatggtgc tgctatgtta
 81     1321 tcatttgaat cacttgcaga aacatcagag tttgctcgta aatgggtacc attttgcaag
 82     1381 aaatatagca tagagcctcg tgcaccagaa tggtactttg ctgcgaaaat agattacttg
 83     1441 aaggataaag ttcagacatc atttgtcaaa gatcgtagag ctatgaagag ggaatatgag
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 92     1981 ttagatggga ttcaaggacc tgtatatgtc ggaactggat gtgttttcaa cagaacagca
 93     2041 ttatacggtt atgaacctcc aataaaagta aaacacaaga agccaagtct tttatctaag
 94     2101 ctctgtggtg gatcaagaaa gaagaattcc aaagctaaga aagagtcgga caaaaagaaa
 95     2161 tcaggcaggc atactgactc aactgttcct gtattcaacc tcgatgacat agaagaggga
 96     2221 gttgaaggtg ctggttttga tgatgaaaag gcgctcttaa tgtcgcaaat gagcctggag
 97     2281 aagcgatttg gacagtctgc tgtttttgtt gcttctaccc taatggaaaa tggtggtgtt
 98     2341 cctccttcag caactccaga aaaccttctc aaagaggcta tccatgtcat tagttgtggt
 99     2401 tatgaggata agtcagattg gggaatggag attggatgga tctatggttc tgtgacagaa
100     2461 gatattctga ctgggttcaa aatgcatgcc cgtggatggc gatccattta ctgcatgcct
101     2521 aagcttccag ctttcaaggg ttctgctcct atcaatcttt cagatcgtct gaaccaagtg
102     2581 ctgaggtggg ctttaggttc agttgagatt ctcttcagtc ggcattgtcc tatatggtat
103     2641 ggttacaatg ggaggctaaa atttcttgag aggtttgcgt atgtgaacac caccatctac
104     2701 cctatcacct ccattcctct tctcatgtat tgtacattgc tagccgtttg tctcttcacc
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106     2821 ctctccattt tcgccacggg tatactagaa atgaggtgga gtggcgtagg catagacgaa
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108     2941 tttcaaggta tcctcaaagt ccttgccggt attgacacaa acttcacagt tatctcaaaa
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RAW SEQUENCE LISTING   DATE: 05/16/2002
PATENT APPLICATION: US/09/686,234   TIME: 10:52:27

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05162002\I686234.raw

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    110      3061 attccgccaa cgacgctgct cattgtaaac ttagtgggag ttgttgcagg agtctcttat
    111      3121 gctatcaaca gtggatacca atcatgggga ccactctttg gtaagttgtt ctttgccttc
    112      3181 tgggtgattg ttcacttgta ccctttcctc aagggtttga tgggtcgaca gaaccggact
    113      3241 cctaccattg ttgtggtctg gtctgttctc ttggcttcta tcttctcgtt gttgtgggtt
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    115      3361 tgttgagaag cgagcaaata tttacctgtt ttgagggtta aaaaaaacac agaatttaaa
    116      3421 ttatttttca ttgttttatt tgttcacttt tttacttttg ttgtgtgtat ctgtctgttc
    117      3481 gttcttctgt cttggtgtca taaatttatg tgtagaatat atcttactct agttactttg
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    122 (2) INFORMATION FOR SEQ ID NO: 2:
    124      (i) SEQUENCE CHARACTERISTICS:
    125          (A) LENGTH: 3563 NUCLEOTIDES
E--> 126          (B) TYPE: cDNA
    127          (C) STRANDEDNESS: DOUBLE STRANDED
    128          (D) TOPOLOGY: LINEAR
W--> 130     (ii) MOLECULE TYPE:
    132     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
    134         1 atcccaagat tctcctcttc gtcttcctta taaactatct ctctgtagag aagaaagctt
    135        61 ggatccagat tgagagagat tcagagagcc acatcaccac actccatctt cagatctcat
    136       121 gatttgaact attccgacgt ttcggtgttg gaagcaacta agtgacaaat ggaatccgaa
    137       181 ggggaaaccg cgggaaagcc gatgaagaac attgttccgc agacttgcca gatctgtagt
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    139       301 ccagtttgtc ggccttgcta cgagtatgag aggaaagatg ggaatcaatc ttgtcctcag
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RAW SEQUENCE LISTING   DATE: 05/16/2002
PATENT APPLICATION: US/09/686,234   TIME: 10:52:27

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\05162002\I686234.raw

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186   3061 attccgccaa cgacgctgct cattgtaaac ttagtgggag ttgttgcagg agtctcttat
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188   3181 tgggtgattg ttcacttgta cccttttcctc aagggtttga tgggtcgaca gaaccggact
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194   3541 gaaagttata attaaagtga aag
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VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/686,234**

DATE: 05/16/2002
TIME: 10:52:28

Input Set : **A:\PTO.VSK.txt**
Output Set: **N:\CRF3\05162002\I686234.raw**

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L:18 M:220 C: Keyword misspelled or invalid format, [(F) ZIP:]
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L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:36 M:220 C: Keyword misspelled or invalid format, [(ix) TELECOMMUNICATION INFORMATION:]
L:52 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]
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L:52 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:125 M:241 E: Invalid Alpha Header Field, [TYPE:], SeqNo=2
L:130 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
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